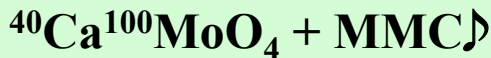
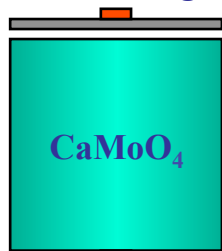


AMoRE detector technology



Low Temp. Detector
Source = Detector

MMC Light sensor



MMC phonon sensor

<10-50 mK>

CaMoO₄

- Scintillating crystal
- High Debye temperature: $T_D = 438 \text{ K}$, $C \sim (T/T_D)^3$
- ^{48}Ca , ^{100}Mo $0\nu\beta\beta$ candidates
- AMoRE uses $^{40}\text{Ca}^{100}\text{MoO}_4$ w. enriched ^{100}Mo and depleted ^{48}Ca

MMC (Metallic Magnetic Calorimeter)

- Magnetic temperature sensor (Au:Er) + SQUID
- Sensitive low temperature detector with highest resolution
- Wide operating temperature
- Relatively fast signals
- Adjustable parameters in design and operation stages